

Mr. Paul Coburn
Whirlpool Corporation
5401 U.S. Highway 41 North
Evansville, IN 47727

Re: 163-16495
Fifth Administrative Amendment to
Part 70 163-7467-00022

Dear Mr. Coburn:

Whirlpool Corporation was issued a Part 70 permit on July 13, 1999, for a household refrigerator and ice maker manufacturing plant located at 5401 U.S. Highway 41 North, Evansville, IN 47711-1962. A letter requesting a modification was received on August 22, 2002. The modification relates to the addition of one (1) 1.5 mMBTU/hr natural gas fired boiler to the facility. Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows (~~strikeout~~ to show deletions and **bold** to show additions):

(1) The description of insignificant activities in Section A.3 is amended as follows:

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) Natural Gas-fired Boiler less than ten million British thermal units per hour (1.527 MMBtu/hr).
- (b) Research and development activities, as defined in 326 IAC 2-7-1(21)(E).
- (c) **One (1) Natural Gas-fired Boiler with a maximum heat input of 1.5 mMBTU/hr.**

(2) The facility description in Section D.7 is amended as follows:

- (a) One (1) Natural Gas-fired boiler rated at 1.527 MMBtu/hr.
- (b) **One (1) Natural Gas-fired Boiler with a maximum heat input of 1.5 mMBTU/hr.**

(3) Condition D.7.1 is amended as follows:

D.7.1 Particulate Matter (PM)

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from **each of** the 1.527 MMBtu per hour **and 1.5 MMBTU per hour** heat input Natural Gas-fired Boilers shall be limited to 0.27 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = 1.09 / (Q^{0.26}) = 0.27 \text{ lb/MMBtu heat input}$$

where Pt = rate of emission in pounds per MMBtu heat input.
Q = total source maximum operating capacity in MMBtu/hr = ~~212.727 MMBtu/hr~~

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of

Whirlpool Corporation
Evansville, Indiana

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this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Madhurima Moulik, at (800) 451-6027, press 0 and ask for Madhurima Moulik or extension 3-0868, or dial (317) 233-0868.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

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cc: File - Vanderburgh County
U.S. EPA, Region V
Vanderburgh County Health Department
Evansville Environmental Protection Agency
IDEM - Southwest Regional Office
Air Compliance Section Inspector - Scott Anslinger
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

**PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY
AND
CITY OF EVANSVILLE ENVIRONMENTAL
PROTECTION AGENCY**

**Whirlpool Corporation
5401 U.S. 41 North
Evansville, Indiana 47727**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T163-7467-00022	
Issued by:	Issuance Date: July 13, 1999
Janet G. McCabe, Assistant Commissioner Office of Air Quality	Expiration Date: July 13, 2004

First Administrative Amendment No.: 163-11817 Issuance Date: April 28, 2000
Second Administrative Amendment No.: 163-13859 Issuance Date: March 14, 2001
First Reopening No.: 163-13511 Issuance Date: February 7, 2002
Third Administrative Amendment No.: 163-15849 Issuance Date: May 3, 2002
Fourth Administrative Amendment No.: 163-15738 Issuance Date: July 2, 2002

Fifth Administrative Amendment No.: 163-16495	Pages Modified: 7, 41
Issued by:	Issuance Date:
Paul Dubenetzky, Branch Chief Office of Air Quality	

thousand pounds per hour (11,000 lb/hr) of raw material, and exhausting to stack S1-1.

- (g) One (1) Expanded Polystyrene Process, identified as F12, consisting of one (1) pre-expander and eleven (11) press molders with a maximum usage of 14,000 pounds of beads per day of raw material, and exhausting to room.
- (h) One (1) Foam-in-Place (FIP) Line No. 4, designated as Emission unit (EU-15), that will be utilized for variety of refrigerator models. This line is a closed-pour system where wet foam is injected through holes in the fully fabricated door panel;
- (i) Three (3) electric pre-heat ovens, associated with the FIP Line No. 4; one rated at 13 kilowatts (KW), one rated at 19KW; and one rated at 24 KW. The preheaters are used to warm the steel refrigerator, freezer doors and plastic liners; and
- (j) Two (2) closed and slightly pressurized chemical day tanks, associated with the FIP Line No. 4; one 150 gallon tank holding the polyol and blowing agent (HCFC-141b) master batch mixture and one 150 gallon tank holding the isocyanate compound (MDI).

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) Natural Gas-fired Boiler less than ten million British thermal units per hour (1.527 MMBtu/hr).
- (b) Research and development activities, as defined in 326 IAC 2-7-1(21)(E).
- (c) One (1) Natural Gas-fired Boiler with a maximum heat input of 1.5 mmBTU/hr.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION D.7 FACILITY OPERATION CONDITIONS

Insignificant Activities

- (a) One (1) Natural Gas-fired boiler rated at 1.527 MMBtu/hr.
- (b) One (1) Natural Gas-fired boiler with a maximum heat input of 1.5 mmBTU/hr.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Particulate Matter (PM)

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating) the PM emissions from each of the 1.527 MMBtu per hour and 1.5 MMBTU per hour heat input Natural Gas-fired Boilers shall be limited to 0.27 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = 1.09 / (Q^{0.26})$$

where Pt = rate of emission in pounds per MMBtu heat input.
Q = total source maximum operating capacity in MMBtu/hr

Compliance Determination Requirements

D.7.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.7.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.